

Set	Items	Description
S1	384156	WIRELESS OR WIFI OR WAP OR CELLULAR? OR MOBILE
S2	4323	(SECRET? OR PRIVATE? OR HIDDEN? OR CONCEAL?) (N) (KEY OR KEY-S)
S3	400	(CHANNEL? OR SELF() DISTRIBUTED) (N) (KEY OR KEYS)
S4	500519	STATION? OR PDA OR PORTABLE() DIGITAL() ASSISTANT? OR CELLPHONE? OR (CELL OR CELLULAR OR MOBILE) () (TELEPHONE? OR DEVICE? - OR LAPTOP? OR NOTEBOOK)
S5	898517	AUTHENTIC? OR VERIF? OR SECUR? OR ENCRYPT? OR ENCIPHER? OR ENCYCIPHER? OR CRYPTO? OR PRIVACY OR PASSWORD? OR ID OR HANDSHAKE? OR CRAM OR USER() (NAME? OR IDENTIFIER?)
S6	0	S1 AND S2 AND S3
S7	174	S1 AND (S2 OR S3) AND S4
S8	231390	ACCESS() POINT? OR BEACON? OR SERVER? OR BASE() STATION?
S9	87	S7 AND S8
S10	76	S9 AND S5
S11	24	S10 NOT AD=20000912:20030912
S12	20	S11 NOT AD=20030912:20050901
S13	73338	(CREATE? OR ESTABLISH? OR OPEN? OR GENERAT?) (2N) (ROUTE? OR CHANNEL? OR PATH? OR CONNECTION?)
S14	5	S13 AND S7
S15	2	S2 AND S3 AND S13
S16	7	(S14 OR S15) NOT S12

File 347:JAPIO Nov 1976-2005/Apr (Updated 050801)
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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200552
(c) 2005 Thomson Derwent

12/5/5 (Item 5 from file: 347)
DIALOG(R) File 347:JAPIO
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05881562 **Image available**
METHOD AND SYSTEM FOR DELIVERING SECRET KEY

PUB. NO.: 10-164662 [JP 10164662 A]
PUBLISHED: June 19, 1998 (19980619)
INVENTOR(s): SHIGETAKE HIDEKI
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 08-320564 [JP 96320564]
FILED: November 29, 1996 (19961129)
INTL CLASS: [6] H04Q-007/38; H04L-009/08
JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems); 44.3
(COMMUNICATION -- Telegraphy); 44.4 (COMMUNICATION --
Telephone)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a method and a system for delivering a secret key by which a first secret key can be delivered even in a radio section between a mobile station and a public base station without using such a high-degree cipher system as the public key cryptosystem.

SOLUTION: After a mobile station (a) establishes an enciphered communication channel between the station (a) and a master machine A in which the station (a) is registered by using a preset second secret key K_{Aa} shared between the station (a) and machine (A), the mobile station (a) delivers a first secret key K_{ab} to the machine A through the enciphered communication channel. Then the machine A delivers the first secret key K_{ab} to a called wired terminal (b) through an ISDN 1.

12/5/6 (Item 6 from file: 347)
DIALOG(R) File 347:JAPIO
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04335993 **Image available**
AUTHENTICATION METHOD IN DIGITAL MOBILE COMMUNICATION

PUB. NO.: 05-327693 [JP 5327693 A]
PUBLISHED: December 10, 1993 (19931210)
INVENTOR(s): KAMIBAYASHI SHINJI
KOBAYASHI KATSUMI
ONO SEIZO
HANAOKA MITSUAKI
NAKAMURA HIROSHI
APPLICANT(s): NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese Company or Corporation), JP (Japan)
N T T IDOU TSUUSHINMOU KK [000000] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 02-402926 [JP 90402926]
FILED: December 17, 1990 (19901217)
INTL CLASS: [5] H04L-009/06; H04L-009/14; H04B-007/26
JAPIO CLASS: 44.3 (COMMUNICATION -- Telegraphy); 26.2 (TRANSPORTATION -- Motor Vehicles); 44.2 (COMMUNICATION -- Transmission Systems)
JOURNAL: Section: E, Section No. 1522, Vol. 18, No. 148, Pg. 132, March 11, 1994 (19940311)

ABSTRACT

PURPOSE: To enable a mobile station to be shared and to prevent illegal use by specifying a authentication confirmation signal and a authentication reply signal of a mobile set and a subscriber with a random number and a secret key and starting the operation when both the signals are coincident.

CONSTITUTION: A random number generating circuit 31 generates at first a random number R for an authentication request in a base station and transmits the number to a mobile station. A mobile set 30 enters the random number R and secret keys K(sub s), K(sub p) of the mobile set and subscriber to a signal conversion circuit 33 to obtain an authentication reply and a communication ciphering key K(sub e1) and transmits the authentication reply to the base station. The base station inputs the random number R and secret keys Ks, Kp to a signal conversion circuit 32 to obtain an authentication reply and a communication ciphering key K(sub e2). A comparator circuit 34 compares a bit pattern of the authentication reply received from the mobile station with a bit pattern of the authentication reply generated in the base station, and enables the authentication of the mobile set when they are coincident and disables the recognition in other cases. That is, then the authentication of the mobile set and the subscriber authentication are implemented simultaneously by one authentication procedure to share the mobile station by plural subscribers without degradation in the throughput.

12/5/12 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013594411 **Image available**

WPI Acc No: 2001-078618/200109

XRPX Acc No: N01-201123

Secure transaction method for use between mobile terminal and server , involves establishing USSD dialogue between terminal and proxy till secure transaction is established

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: KIESSLING J; VAN DO T; VAN THANH D; DO T V

Number of Countries: 094 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
NO 9902839	A	20001211	NO 992839	A	19990610	200109 B
WO 200078070	A1	20001221	WO 2000SE1169	A	20000606	200130
AU 200060312	A	20010102	AU 200060312	A	20000606	200121
NO 311000	B1	20010924	NO 992839	A	19990610	200159
EP 1186183	A1	20020313	EP 2000946576	A	20000606	200225
			WO 2000SE1169	A	20000606	
JP 2003502759	W	20030121	WO 2000SE1169	A	20000606	200308
			JP 2001504195	A	20000606	
US 6795924	B1	20040921	US 2000589810	A	20000609	200462

Priority Applications (No Type Date): NO 992839 A 19990610

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

NO 9902839 A H04M-001/66

WO 200078070 A1 E 16 H04Q-007/22

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200060312 A H04Q-007/22 Based on patent WO 200078070

NO 311000 B1 H04M-001/66 Previous Publ. patent NO 9902839

EP 1186183 A1 E H04Q-007/22 Based on patent WO 200078070

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2003502759 W 15 G06F-015/00 Based on patent WO 200078070

US 6795924 B1 H04L-009/00

Abstract (Basic): WO 200078070 A1

NOVELTY - Proxy decomposes WML page from **WAP server** into USSD and sends data to **mobile** terminal display. After establishment of **secure** transaction, USSD dialogue is stopped and SAT application is activated in terminal. Application shows details of transaction and prompts for OK' to transaction. When user agrees, application signs data with **secret key** and sends to proxy where data is assembled in the WML format.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **secure** transaction apparatus for use between **server** and **mobile** terminal.

USE - For enabling **secure** transaction between **server** and **mobile telephones**.

ADVANTAGE - Very high level of **security** is maintained due to the **security** aspect of the SIM card. The method can be used in different applications, as it got to handle only the signing process in SIM card. Information browsing and **security** of transaction are independent due to the system handling.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of **secured WAP** exchange using SAT back channel.

pp; 16 DwgNo 2/2

Title Terms: **SECURE** ; **TRANSACTION**; **METHOD**; **MOBILE** ; **TERMINAL**; **SERVE**;

12/5/15 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013153256 **Image available**

WPI Acc No: 2000-325128/200028

XRPX Acc No: N00-244799

Mobile -communication dynamic secure grouping communication procedure, involves performing encryption communication between base - station and terminal using base - station group key

Patent Assignee: KODO IDO TSUSHIN SECURITY GIJUTSU KENKYU (KODO-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000101566	A	20000407	JP 98285872	A	1998092	200028 B

Priority Applications (No Type Date): JP 98285872 A 19980924

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000101566	A	12		H04L-009/14	

Abstract (Basic): JP 2000101566 A

NOVELTY - Two sets of disclosure key and secret key of intrinsic disclosure key system are selected and grouped as lot and are delivered to each terminal (2) forming terminal group key. The remaining disclosure key and secret key are formed as base - station group key and are maintained to base station (1). Thus, encryption communication between terminal and base - station is performed, through base - station group key.

DETAILED DESCRIPTION - Several disclosure key and secret key of intrinsic disclosure key system are provided to each terminal (2). The base - station (1) which controls communication, is connected to each terminal through wireless circuit.

USE - For securing security of mobile communication system.

ADVANTAGE - Since common key is changed for every transmission, safe and smooth group communication is enabled.

DESCRIPTION OF DRAWING(S) - The figure shows explanatory diagram of mobile communication system which applies communication procedure.

Base - station (1)

Terminal (2)

pp; 12 DwgNo 1/9

Title Terms: MOBILE ; COMMUNICATE; DYNAMIC; SECURE ; GROUP; COMMUNICATE; PROCEDURE; PERFORMANCE; ENCRYPTION ; COMMUNICATE; BASE; STATION ; TERMINAL; BASE; STATION ; GROUP; KEY

Derwent Class: P85; W01; W02

International Patent Class (Main): H04L-009/14

International Patent Class (Additional): G09C-001/00; H04B-007/26

File Segment: EPI; EngPI

12/5/18 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010625525 **Image available**
WPI Acc No: 1996-122478/199613

XRPX Acc No: N96-102915

Digital cordless telephone with safe secrecy key setting e.g. PHS - has second key generator which generates secrecy key based on key generation information from mobile sub- station

Patent Assignee: SHARP KK (SHAF)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8018657	A	19960119	JP 94146782	A	19940628	199613 B

Priority Applications (No Type Date): JP 94146782 A 19940628

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8018657	A	7		H04M-001/68	

Abstract (Basic): JP 8018657 A

The telephone performs wireless transmission in which secret key information is prevented from transmission. A base station (1) is connected to the public circuit. The base station and the mobile sub- station (10) carry out digital encoding of audio signal and performs wireless transmission mutually. A first key generation device (5) forms a secret key based on the key generation information which is input into the mobile sub- station by a key input device (13).

The key generation information is then transmitted to the base station . A control device (2) controls the encoding by the secret key . A second key generator (15) forms another secret key based on the key generation information received from the mobile sub- station . The secret key is then stored in a pair of key retainers (6,16).

ADVANTAGE - Prevents transmission of secret key . Realizes safe secrecy key. Realizes highly safe privacy function of secrecy key.

Dwg.1/10

Title Terms: DIGITAL; CORD; TELEPHONE; SAFE; SECRET; KEY; SET; SECOND; KEY; GENERATOR; GENERATE; SECRET; KEY; BASED; KEY; GENERATE; INFORMATION; MOBILE ; SUB; STATION

Index Terms/Additional Words: PERSON AL_HAND ; HANDY; TELEPHONE

Derwent Class: W01

International Patent Class (Main): H04M-001/68

International Patent Class (Additional): H04L-009/06; H04L-009/14

File Segment: EPI

12/5/19 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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010307578 **Image available**

WPI Acc No: 1995-208836/199528

XRPX Acc No: N95-163659

Key distribution and authentication for secure data traffic - generating network key and backbone key for remote station at base station

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); IBM CORP (IBMC)

Inventor: BAUCHOT F; BJORKLUND R E; HERZBERG A; KUTTEN S; WETTERWALD M M

Number of Countries: 006 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 658021	A1	19950614	EP 93480219	A	19931208	199528	B
CA 2130396	A	19950609	CA 2130396	A	19940818	199536	
JP 7202883	A	19950804	JP 94256367	A	19941021	199540	
US 5539824	A	19960723	US 94348656	A	19941202	199635	
CA 2130396	C	19980331	CA 2130396	A	19940818	199824	
EP 658021	B1	20010328	EP 93480219	A	19931208	200118	
DE 69330065	E	20010503	DE 630065	A	19931208	200132	
			EP 93480219	A	19931208		

Priority Applications (No Type Date): EP 93480219 A 19931208

Cited Patents: 1.Jnl.Ref; US 5199072

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 658021 A1 E 16 H04L-009/08

Designated States (Regional): DE FR GB

CA 2130396 A H04L-009/08

JP 7202883 A 16 H04L-009/06

US 5539824 A 14 H04N-009/32

CA 2130396 C H04L-009/08

EP 658021 B1 E H04L-009/08

Designated States (Regional): DE FR GB

DE 69330065 E H04L-009/08 Based on patent EP 658021

Abstract (Basic): EP 658021 A

The method of key distribution and authentication involves installing a common **hidden key** (K_m) and a unique identifier (U_A) to each **station**. In order to install one **base station** a preliminary key (K_1) is generated and installed. This triggers selection of a network key (K_{net}) which is stored in a network manager. Another **base station** is also installed and a key is selected for it based upon that of the first **base station**.

A **remote station** is installed by choosing a name for it on the basis of its identifier. The name is **encrypted** within the installed **station**. A name parameter is computed and provided to the **remote station** where it is stored. Pref., the preliminary key is randomly generated within the network manager.

USE/ADVANTAGE - For **wireless LAN** transmission network. Easy to use since **stations** can be initiated on site. Distribution of **private keys** for **LAN** remote and **base stations**.

Dwg.2/6

Title Terms: KEY; DISTRIBUTE; AUTHENTICITY ; SECURE ; DATA; TRAFFIC; GENERATE; NETWORK; KEY; BACKBONE; KEY; REMOTE; STATION ; BASE; STATION
Derwent Class: W01

International Patent Class (Main): H04L-009/06; H04L-009/08; H04N-009/32

International Patent Class (Additional): H04L-009/14; H04L-009/32; H04L-012/22; H04L-012/28

File Segment: EPI

16/5/2 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015966879 **Image available**

WPI Acc No: 2004-124720/200413

XRPX Acc No: N04-099794

Resource use authorization sharing method e.g. for bank account, involves forwarding secret key unit to server to perform partial operations on message received from slave device

Patent Assignee: NOKIA CORP (OYNO)

Inventor: ASOKAN N; NYBERG K; SOVIO S; NIEMI V

Number of Countries: 031 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1383265	A1	20040121	EP 200215842	A	20020716	200413 B
US 20040062400	A1	20040401	US 2003621258	A	20030715	200425

Priority Applications (No Type Date): EP 200215842 A 20020716

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1383265 A1 E 13 H04L-009/32

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

US 20040062400 A1 H04L-009/00

Abstract (Basic): EP 1383265 A1

NOVELTY - A secret key (d) is split into two units (d1,d2) at a master device (11) acting as delegator of authorization. A piece of information relating to the unit (d1) is forwarded to a slave device (13) enabling the device to perform partial secret operation on a message. The unit (d2) is forwarded to a server (12) enabling the server to perform partial operations on the message received from the slave device.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) delegator;

(2) server for supporting chain delegation authorization use.

USE - For sharing authorization to use resources such as bank account among devices such as mobile phones, personal digital assistant (PDA), and personal computer.

ADVANTAGE - Since a security connection is established between the slave device and the server, the computational workload on the server is reduced, thus the capability of proposed authorization delegation to the slave device is extended in a simple way.

DESCRIPTION OF DRAWING(S) - The figure shows a chained delegation of authorization.

master device (11)

server (12)

slave device(d) secret master key (13)

secret key units (d1,d2)

pp; 13 DwgNo 2/2

Title Terms: RESOURCE; AUTHORISE; SHARE; METHOD; BANK; ACCOUNT; FORWARDING; SECRET; KEY; UNIT; SERVE; PERFORMANCE; OPERATE; MESSAGE; RECEIVE; SLAVE; DEVICE

Derwent Class: T01; W01

International Patent Class (Main): H04L-009/00; H04L-009/32

File Segment: EPI

Set	Items	Description
S1	361485	WIRELESS OR WIFI OR WAP OR CELLULAR? OR MOBILE OR BLUETOOTH? H? OR WI()FI
S2	8288	(SECRET? OR PRIVATE? OR HIDDEN? OR CONCEAL?) (N) (KEY OR KEY-S)
S3	596	(CHANNEL? OR SELF()DISTRIBUTED) (N) (KEY OR KEYS)
S4	325619	STATION? OR PDA OR PORTABLE()DIGITAL()ASSISTANT? OR CELLPHONE? OR (CELL OR CELLULAR OR MOBILE) ()(TELEPHONE? OR DEVICE? OR LAPTOP? OR NOTEBOOK)
S5	103420	(CREATE? OR ESTABLISH? OR OPEN? OR GENERAT?) (2N) (ROUTE? OR CHANNEL? OR PATH? OR CONNECTION?)
S6	1	S1(10N)S2(10N)S3
S7	252	S1(10N) (S2 OR S3) (10N)S4
S8	7886	S1(10N) (S1 OR S) (10N)S5
S9	666671	AUTHENTIC? OR VERIF? OR SECUR? OR ENCRYPT? OR ENCIPHER? OR ENCPYHER? OR CRYPTOG? OR PRIVACY OR PASSWORD? OR ID OR HANDSH-AKE? OR CRAM OR USER() (NAME? OR IDENTIFIER?)
S10	824	(S7 OR S8) (10N)S9
S11	118672	ACCESS()POINT? OR BEACON? OR SERVER? OR BASE()STATION?
S12	299	S10(10N)S11
S13	64	S12 AND IC=(H04L-009 OR G09C-001 OR H04M)
S14	25	S13 NOT AD=20000912:20030912
S15	21	S14 NOT AD=20030912:20050901
File 348:EUROPEAN PATENTS 1978-2005/Aug W01		
		(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050811,UT=20050804		
		(c) 2005 WIPO/Univentio

15/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01132330

Method and apparatus for establishing a secure connection over a one-way data path
Verfahren und Anordnung zur Herstellung sicherer Verbindungen über Einwegskanale
Methode et appareil pour établir des liaisons sécurisées sur canaux unidirectionnels

PATENT ASSIGNEE:

Openwave Systems Inc., (2766843), 800 Chesapeake Drive, Redwood City, CA 94063, (US), (Proprietor designated states: all)

INVENTOR:

King, Peter F., 121 Presidio Avenue, Half Moon Bay, CA 94019, (US)

LEGAL REPRESENTATIVE:

Ablett, Graham Keith et al (53082), Ablett & Stebbing, Caparo House, 101-103 Baker Street, London W1M 1FD, (GB)

PATENT (CC, No, Kind, Date): EP 989712 A2 000329 (Basic)
EP 989712 A3 020417
EP 989712 B1 050406

APPLICATION (CC, No, Date): EP 99307459 990921;

PRIORITY (CC, No, Date): US 158317 980921

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04L-029/06; H04L-009/08

ABSTRACT WORD COUNT: 125

NOTE:

Figure number on first page: 2B

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200013	812
CLAIMS B	(English)	200514	956
CLAIMS B	(German)	200514	883
CLAIMS B	(French)	200514	1201
SPEC A	(English)	200013	9183
SPEC B	(English)	200514	9135
Total word count - document A			9997
Total word count - document B			12175
Total word count - documents A + B			22172

...INTERNATIONAL PATENT CLASS: H04L-009/08

...SPECIFICATION two-way data channel. As examples, both the HDTCP and the WTLS protocols require a handshake operation between the server and a mobile device to establish a secure connection. Conventionally, the two-way data channel is needed to provide the handshake operation. As a...

...a two-way data channel; a network gateway coupled between the wired network and the wireless carrier network, the network gateway includes a secure connection processor that establishes a secure connection over the first channel by exchanging security information over the second channel; and a plurality of wireless mobile devices that can exchange data with the server computers on the wired network via the wireless carrier network and the network gateway. The messages are supplied from the network gateway to the wireless mobile devices over the secure connection established over the first channel.

As a mobile device capable of connecting to a network of computers through a wireless link, an embodiment of the invention includes: a display screen that displays graphics and text...

...SPECIFICATION degree)7, July 1998, page 1480-1497, represents the closest prior art and discloses a **handshake** operation between a **server** and a **mobile** device to establish a **secure connection**.

One problem with the conventional approach to establishing a **secure connection** is that it requires a two-way data channel. As examples, both the HDTCP and the WTLS protocols require a **handshake** operation between the **server** and a **mobile** device to establish a **secure connection**. Conventionally, the two-way data channel is needed to provide the **handshake** operation. As a...

...a two-way data channel; a network gateway coupled between the wired network and the **wireless** carrier network, the network gateway includes a secure connection processor that establishes a secure connection over the first channel by exchanging **security** information over the second channel; and a plurality of **wireless mobile** devices that can exchange data with the server computers on the wired network via the **wireless** carrier network and the network gateway. The messages are supplied from the network gateway to the **wireless mobile** devices over the **secure connection** established over the first channel.

As a **mobile** device capable of connecting to a network of computers through a **wireless** link, an embodiment of the invention includes: a display screen that displays graphics and text...

15/3,K/9 (Item 9 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00687914
A method and system for key distribution and authentication in a data communication network
Verfahren und System zur Schlüsselverteilung und Authentifizierung in einem Datenertragungssystem
Procede et systeme de distribution de cle et authentification dans un reseau de communication de donnees

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

Bjorklund, Ronald Einar, Villa "La Lezardiere", Chemin de Bezaudin 76, F-06510 Gattieres, (FR)
Bauchot, Frederic, 299 Chemin du Vallon, La Tourraque, F-06640 Saint Jeannet, (FR)
Wetterwald, Michele Marie, 32 Chemin de Saint Laurent, F-06800 Cagnes Sur Mer, (FR)

Kutten, Shay, 41 Lenox Street, Rockaway, NJ 07866, (US)

Herzberg, Amir, 3935 Blackstone Avenue, No. 4a, Bronx, NY 10471, (US)

LEGAL REPRESENTATIVE:

de Pena, Alain (15151), Compagnie IBM France Departement de Propriete Intellectuelle, 06610 La Gaudie, (FR)

PATENT (CC, No, Kind, Date): EP 658021 A1 950614 (Basic)
EP 658021 B1 010328

APPLICATION (CC, No, Date): EP 93480219 931208;

PRIORITY (CC, No, Date): EP 93480219 931208

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H04L-009/08 ; H04L-009/32

ABSTRACT WORD COUNT: 161

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	904
CLAIMS B	(English)	200113	878
CLAIMS B	(German)	200113	817
CLAIMS B	(French)	200113	1096
SPEC A	(English)	EPAB95	3678
SPEC B	(English)	200113	3720
Total word count - document A			4583
Total word count - document B			6511
Total word count - documents A + B			11094

INTERNATIONAL PATENT CLASS: H04L-009/08 ...

... H04L-009/32

...SPECIFICATION Another object of this invention is to provide such a method for a so-called wireless LAN network combining both wireless communications with wired LAN.

Still another object of this invention is to provide a method for distributing private keys needed in an authentication procedure of a wireless LAN remote and base stations.

These and other characteristics, objects and advantages of this invention will become more apparent from...

...SPECIFICATION Another object of this invention is to provide such a method for a so-called wireless LAN network combining both wireless communications with wired LAN.

Still another object of this invention is to provide a method for distributing **private keys** needed in an **authentication** procedure of a **wireless LAN remote and base stations**.

These and other characteristics, objects and advantages of this invention will become more apparent from...

15/3, K/21 (Item 9 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00196992
**A METHOD OF CARRYING OUT AN AUTHENTICATION CHECK BETWEEN A BASE STATION AND
A MOBILE STATION IN A MOBILE RADIO SYSTEM**
**PROCEDE D'EXECUTION D'UN CONTROLE D'AUTHENTIFICATION ENTRE UNE STATION DE
BASE ET UNE STATION MOBILE DANS UN SYSTEME DE RADIO MOBILE**

Patent Applicant/Assignee:
TELEFONAKTIEBOLAGET LM ERICSSON,

Inventor(s):

WILKINSON Dent Paul,
RAITH Alex Krister,
DAHLIN Jan Erik Ake Steinar,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9114348 A1 19910919
Application: WO 91SE66 19910129 (PCT/WO SE9100066)
Priority Application: SE 90856 19900309

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA FI JP KR NO

Publication Language: English

Fulltext Word Count: 2444

International Patent Class: H04M-01:66

Fulltext Availability:

Detailed Description
Claims

Detailed Description

... formed
values of Resp 3. If the values coincide, connection of the call continues to establish a speech connection .

The method steps according to block 7, 8 and 9 provide an authentication check in which the mobile decides whether or not the base station is authentic, since verification of the signal Resp 2 sent from the base station takes place in the mobile, and against a value Resp 2 calculated in said mobile...

...2, 3 and 4 can be carried out on a general control channel in the mobile radio system, and the authentication check according to blocks 7-12 can be carried out on the speech channel established between the base station BS and the mobile MSk (blocks 5 and 6) e
Figure 4 is a block diagram illustrating the f...

Set	Items	Description
S1	1346057	WIRELESS OR WIFI OR WAP OR CELLULAR? OR MOBILE OR BLUETOOTH? OR WI()FI FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S2	5815	(SECRET? OR PRIVATE? OR HIDDEN? OR CONCEAL?)(N)(KEY OR KEYS) FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S3	185	(CHANNEL? OR SELF()DISTRIBUTED)(N)(KEY OR KEYS) FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S4	966584	STATION? OR PDA OR PORTABLE()DIGITAL()ASSISTANT? OR CELLPHONE? OR (CELL OR CELLULAR OR MOBILE)()TELEPHONE? OR DEVICE? OR LAPTOP? OR NOTEBOOK) FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S5	90144	(CREATE? OR ESTABLISH? OR OPEN? OR GENERAT?)(2N)(ROUTE? OR CHANNEL? OR PATH? OR CONNECTION?) FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S6	0	S1(10N)S2(10N)S3 FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S7	12	S1(10N)(S2 OR S3)(10N)S4 FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S8	1828	S1(10N)(S1 OR S)(10N)S5 FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S9	1975038	AUTHENTIC? OR VERIF? OR SECUR? OR ENCRYPT? OR ENCIPHER? OR ENCYIPHER? OR CRYPTOGR? OR PRIVACY OR PASSWORD? OR ID OR HANDSHAKE? OR CRAM OR USER()(NAME? OR IDENTIFIER?) FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S10	63	(S7 OR S8)(10N)S9 FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S11	218659	ACCESS()POINT? OR BEACON? OR SERVER? OR BASE()STATION? FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S12	4	S10(10N)S11 FROM 8, 35, 56, 57, 65, 2, 94, 111, 6, 144, 34, 62, 99, 95
S13	0	S S1 AND S2 AND S3 AND S4
S14	0	S S1 AND (S2 OR S3) AND S4 AND S5 AND S9 AND S10
S15	0	S S1 AND (S2 OR S3) AND S4 AND S5
S16	69	S S7 OR S10 OR S12
S17	48	S S16 AND S11
S18	7	S S17 NOT PY>2000
		; show files

[File 8] **Ei Compendex(R)** 1970-2005/Aug W1
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[File 35] **Dissertation Abs Online** 1861-2005/Jul
(c) 2005 ProQuest Info&Learning. All rights reserved.

[File 56] **Computer and Information Systems Abstracts** 1966-2005/Jul
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[File 57] **Electronics & Communications Abstracts** 1966-2005/Jul
(c) 2005 CSA. All rights reserved.

[File 65] **Inside Conferences** 1993-2005/Aug W2
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[File 2] **INSPEC** 1969-2005/Aug W1
(c) 2005 Institution of Electrical Engineers. All rights reserved.

[File 94] **JICST-EPlus** 1985-2005/Jun W4
(c)2005 Japan Science and Tech Corp(JST). All rights reserved.

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2005/Aug 16
(c) 2005 The Gale Group. All rights reserved.

[File 6] **NTIS** 1964-2005/Aug W1
(c) 2005 NTIS, Intl Cpyrght All Rights Res. All rights reserved.

[File 144] **Pascal** 1973-2005/Aug W1
(c) 2005 INIST/CNRS. All rights reserved.

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2005/Aug W1
(c) 2005 Inst for Sci Info. All rights reserved.

[File 62] **SPIN(R)** 1975-2005/Jun W1
(c) 2005 American Institute of Physics. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2005/Jul
(c) 2005 The HW Wilson Co. All rights reserved.

[File 95] **TEME-Technology & Management** 1989-2005/Jul W2
(c) 2005 FIZ TECHNIK. All rights reserved.

**File 95: Customers in Germany, Austria, and Switzerland should contact their local Dialog representative.*

Set	Items	Description
S1	100835	WIRELESS OR WIFI OR WAP OR CELLULAR? OR MOBILE OR BLUETOOTH? OR WI()FI
FROM 696		
S2	177	(SECRET? OR PRIVATE? OR HIDDEN? OR CONCEAL?)(N)(KEY OR KEYS) FROM 696
S3	29	(CHANNEL? OR SELF()DISTRIBUTED)(N)(KEY OR KEYS) FROM 696
S4	40511	STATION? OR PDA OR PORTABLE()DIGITAL()ASSISTANT? OR CELLPHONE? OR (CELL OR CELLULAR OR MOBILE)()TELEPHONE? OR DEVICE? OR LAPTOP? OR NOTEBOOK) FROM 696
S5	1521	(CREATE? OR ESTABLISH? OR OPEN? OR GENERAT?)(2N)(ROUTE? OR CHANNEL? OR PATH? OR CONNECTION?) FROM 696
S6	0	S1(10N)S2(10N)S3 FROM 696
S7	2	S1(10N)(S2 OR S3)(10N)S4 FROM 696
S8	110	S1(10N)(S1 OR S)(10N)S5 FROM 696
S9	43618	AUTHENTIC? OR VERIF? OR SECUR? OR ENCRYPT? OR ENCIPHER? OR ENCPYHER? OR CRYPTOG? OR PRIVACY OR PASSWORD? OR ID OR HANDSHAKE? OR CRAM OR USER()NAME? OR IDENTIFIER?) FROM 696
S10	5	(S7 OR S8)(10N)S9 FROM 696
S11	15364	ACCESS()POINT? OR BEACON? OR SERVER? OR BASE()STATION? FROM 696
S12	4	S10(10N)S11 FROM 696
S13	17	S S8(S)S9
S14	16	S S8(S)S11
S15	27	S S7 OR S13 OR S10 OR S12 OR S14
S16	25	RD (unique items)
S17	15	S S16 NOT PY>2000
		; show files

[File 696] DIALOG Telecom. Newsletters 1995-2005/Aug 16

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S1 3604621 WIRELESS OR WIFI OR WI()FI OR CELLULAR OR MOBILE OR BLUETO-
OTH OR WAP
S2 89 DYNAMIC()SESSION()KEY? ?
S3 0 INDEPENDENTLY()GENERATED()KEY? ?
S4 250 LEAP()PROTOCOL OR EAP(2N)CISCO
S5 9592 S1 (12N) (LEAP OR WEP())ENHANCEMENT?)
S6 0 S1 (12N) (INDEPENDENT?)() (CREAT? OR GENERAT? OR SPAWN? OR -
MAKE OR BUILD? OR ASSEMBL? OR AUTHOR OR AUTHORIZING) () (KEY OR K-
EYS)
S7 32 S1 (12N) (DYNAMIC? OR ADAPT? OR CHANG? OR MODIF? OR ALTER?-
) () SESSION?
S8 705 S5(12N) (KEY OR KEYS OR SECUR? OR CRYPTO? OR ENCRYPT? OR E-
NCIPHER? OR ENCYpher? OR CYPER? OR CIPHER? OR CRAM OR CHALLE-
NGE? OR PIN OR PASSWORD? OR IDENTIFIER? OR ID)
S9 76 S1(12N)S4
S10 56 S8(12N) (DYNAMIC? OR INDEPENDENT? OR DISTRIBUT? OR REDISTRIB-
UT?)
S11 399 S2 OR S4 OR S7 OR S9 OR S10
S12 77 S11 NOT PY>2000
S13 34 RD (unique items)
File 275:Gale Group Computer DB(TM) 1983-2005/Aug 18
(c) 2005 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2005/Aug 18
(c) 2005 The Gale group
File 75:TGG Management Contents(R) 86-2005/Aug W1
(c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Aug 17
(c) 2005 The Gale Group
File 16:Gale Group PROMT(R) 1990-2005/Aug 17
(c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/Aug 17
(c) 2005 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2005/Aug W2
(c) 2005 ProQuest
File 613:PR Newswire 1999-2005/Aug 18
(c) 2005 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2004/Dec
(c) 2005 The HW Wilson Co
File 239:Mathsci 1940-2005/Oct
(c) 2005 American Mathematical Society
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2005/Aug 17
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File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Aug 18
(c) 2005 The Gale Group
File 674:Computer News Fulltext 1989-2005/Aug W1
(c) 2005 IDG Communications
File 88:Gale Group Business A.R.T.S. 1976-2005/Aug 17
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File 369:New Scientist 1994-2005/May W5
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File 160:Gale Group PROMT(R) 1972-1989
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File 9:Business & Industry(R) Jul/1994-2005/Aug 17
(c) 2005 The Gale Group
File 13:BAMP 2005/Aug W1

(c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 610:Business Wire 1999-2005/Aug 18
(c) 2005 Business Wire.
File 647:cmp Computer Fulltext 1988-2005/Jul W5
(c) 2005 CMP Media, LLC
File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2005/Aug 18
(c) 2005 The Gale Group
File 634:San Jose Mercury Jun 1985-2005/Aug 16
(c) 2005 San Jose Mercury News

13/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01916318 SUPPLIER NUMBER: 18093288 (USE FORMAT 7 OR 9 FOR FULL TEXT)
GEIS aims to stimulate EDI growth. (General Electric Information Services)
(Company Business and Marketing)

Sterlicchi, John

MIDRANGE Systems, v9, n3, p31(2)

March 15, 1996

ISSN: 1041-8237 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 583 LINE COUNT: 00050

... environment to permit secure transmission of highly sensitive data over the Internet. It provides a dynamic session key that encrypts the session itself to secure all information passed from sender to receiver.

InterBusiness...

13/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01906543 SUPPLIER NUMBER: 18031851 (USE FORMAT 7 OR 9 FOR FULL TEXT)
E-mail: GE Information Services selects Post.Office E-mail server software
to be part of GE interbusiness strategy. (Software.com product adopted)
(Product Information)
EDGE: Work-Group Computing Report, v7, n302, p18(1)
Feb 26, 1996
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 490 LINE COUNT: 00049

... the Internet with verification and authentication for private
transactions."

GE INTERBUSINESS
GE InterBusiness combines encrypted dynamic session key, mutual
authentication, and advanced firewall technology. It is based on standard
Internet protocols and establishes...

13/3,K/7 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04747600 Supplier Number: 63945120 (USE FORMAT 7 FOR FULLTEXT)
Mercury Interactive introduces testing and monitoring solutions to improve performance and reliability of wireless web applications; Nokia, AvantGo, Brience, Everypath, Inc. and six solution providers team with Mercury Interactive to ensure scalable, reliable wireless web applications.

M2 Presswire, pNA

August 8, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1954

... order to comply with micro-browser, gateway, and vendor-specific features such as dynamic content, dynamic session identifiers and cookies.

Mercury Interactive's LoadRunner and ActiveTest stress customers' WAP and i-mode applications by emulating thousands of wireless micro-browser user sessions in order...

13/3, K/34 (Item 2 from file: 148)
DIALOG(R) File 148:Gale Group Trade & Industry DB
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08458617 SUPPLIER NUMBER: 17984181 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Pipeline. (Internet) (News Briefs)
InfoWorld, v18, n7, p53(1)
Feb 12, 1996
ISSN: 0199-6649 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 239 LINE COUNT: 00025

... commerce offering that provides security for business transactions over the Internet. GE InterBusiness combines encrypted **dynamic session - key**, mutual authentication, and advanced firewall technology, establishing a secure pipeline for users to conduct electronic..

S1 1390547 WIRELESS OR WIFI OR WI()FI OR CELLULAR OR MOBILE OR BLUETO-
OTH OR WAP
S2 4 DYNAMIC()SESSION()KEY? ?
S3 0 INDEPENDENTLY()GENERATED()KEY? ?
S4 8 LEAP()PROTOCOL OR EAP(2N)CISCO
S5 630 S1 AND (LEAP OR WEP()ENHANCEMENT?)
S6 0 S1 AND (INDEPENDENT?)() (CREAT? OR GENERAT? OR SPAWN? OR M-
AKE OR BUILD? OR ASSEMBL? OR AUTHOR OR AUTHORIZING()) (KEY OR KE-
YS)
S7 13 S1 AND (DYNAMIC? OR ADAPT? OR CHANG? OR MODIF? OR ALTER?) -
()SESSION?
S8 30 S5 AND (SECURE? OR KEY? ? OR IDENTIFIER? OR SESSIONKEY? OR
PRIVATEKEY? OR PUBLICKEY? OR KEYEXCHANGE?)
S9 30 S5 AND (ENCRYPT? OR ENCIPHER? OR CYPHER? OR CIPHER? OR CRAM
OR CHALLENGE? OR HANDSHAKE? OR AUTHENTIC? OR AUTHORI?)
S10 80 S2 OR S4 OR S7 OR S8 OR S9
S11 56 RD (unique items)
S12 26 S11 NOT PY>2000
File 8:Ei Compendex(R) 1970-2005/Aug W1
(c) 2005 Elsevier Eng. Info. Inc.
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File 34:SciSearch(R) Cited Ref Sci 1990-2005/Aug W2
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File 62:SPIN(R) 1975-2005/Jun W1
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File 95:TEME-Technology & Management 1989-2005/Jul W2
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12/5/1 (Item 1 from file: 8)
DIALOG(R) File 8:EI Compendex(R)
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08515655 E.I. No: EIP01035587292
Title: Guarantee of QoS for wireless multimedia streams based on adaptive session
Author: Zhang, Zhanjun; Han, Chengde; Yang, Xueliang
Corporate Source: Chinese Acad of Science, Beijing, China
Conference Title: 2000 IEEE International Conference on Personal Wireless Communications
Conference Location: Hyderabad, India Conference Date:
20001217-20001220
Sponsor: IEEE; University of Victoria
E.I. Conference No.: 57970
Source: IEEE International Conference on Personal Wireless Communications 2000. IEEE, Piscataway, NJ, USA, 00TH8488. p 283-287
Publication Year: 2000
CODEN: 85QVA4
Language: English
Document Type: CA; (Conference Article) Treatment: A; (Applications); T
; (Theoretical)
Journal Announcement: 0105W1
Abstract: The guarantee of quality of service (QoS) is a key issue for multimedia streams in wireless multimedia communications. QoS parameters required by most of multimedia streams are ranges or in set, left bracket QoS//m//i//n, QoS//m//a//x right bracket . Computer systems and network systems must allocate enough resources such as CPU, I/O, memory and bandwidth to meet these QoS parameters. These resources are dynamic variations in availability e.g. bandwidth on radio during multimedia streams transmission. The adaptive session is defined to formalize multimedia stream in this paper. It can allocate resources with QoS//m//i//n during establishment of multimedia stream call and it can dynamic adjust its QoS parameters in left bracket QoS//m//i//n, QoS//m//a//x right bracket by PID to adapt the variations in resource availability during multimedia transmission. It not only meets the QoS parameters required, but also improves the useful of resources. (Author abstract) 4 Refs.
Descriptors: *Frequency allocation; Multimedia systems; Quality of service; Wireless telecommunication systems; Computer hardware; Radio; Resource allocation; Bandwidth; Algorithms; Theorem proving
Identifiers: Wireless multimedia streams; Multimedia stream transmission; Producer-consumer model
Classification Codes:
716.3 (Radio Systems & Equipment); 716.4 (Television Systems & Equipment); 723.5 (Computer Applications); 716.1 (Information & Communication Theory); 722.1 (Data Storage, Equipment & Techniques); 912.2 (Management)
716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software);
722 (Computer Hardware); 912 (Industrial Engineering & Management)
71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

12/5/2 (Item 2 from file: 8)
DIALOG(R) File 8:Ei Compendex(R)
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06298866 E.I. No: EIP03087365083

Title: Proceedings of the 4th international workshop on discrete algorithms and methods for mobile computing and communications

Author: Anon (Ed.)

Conference Title: Proceedings of the 4th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications

Conference Location: Boston, MA, United States Conference Date: 20000811-20000811

Sponsor: ACM SIGMOBILE; National Science Foundation; Basic and Appl. Simul. Science Group of Los Alamos Nat. Lab.

E.I. Conference No.: 60386

Source: Proceedings of the 4th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications 2000.

Publication Year: 2000

ISBN: 1581133014

Language: English

Document Type: CP; (Conference Review) Treatment: T; (Theoretical)

Journal Announcement: 0302W4

Abstract: The proceedings contains 12 papers from the Conference of the 4th International Workshop on Discrete Algorithms and Methods for Mobile Computing and Communications. Topics discussed include: on-line algorithms for the channel assignment in cellular networks, energy efficient routing in radio networks; mobile facility location; and dynamic session management for static and mobile users: a competitive on-line algorithmic approach. (Edited abstract)

Descriptors: *Telecommunication networks; Channel capacity; Bandwidth; Signal interference; Transmitters; Signal to noise ratio; Energy efficiency; Natural frequencies; Data structures; Network protocols; Telecommunication traffic; Mobile computing; HTTP

Identifiers: Cellular networks; Channel assignment; Call allocation algorithms; Radio networks (RN); Mobile facility location; Wireless ad hoc networks; Internet industry; Virtual channels (VC); Tag identification; EiRev

Classification Codes:

716.1 (Information & Communication Theory); 723.2 (Data Processing); 921.4 (Combinatorial Mathematics, Includes Graph Theory, Set Theory)

716 (Electronic Equipment, Radar, Radio & Television); 723 (Computer Software, Data Handling & Applications); 921 (Applied Mathematics)

71 (ELECTRONICS & COMMUNICATION ENGINEERING); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

12/5/9 (Item 9 from file: 8)
DIALOG(R) File 8:Ei Compendex(R)
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04113373 E.I. No: EIP95032626418

Title: Building a secure communications network

Author: Erman, Timothy

Corporate Source: TeleSec

Source: Telecommunications (Americas Edition) v 29 n 2 Feb 1995. 3pp

Publication Year: 1995

CODEN: TLCMDV ISSN: 0278-4831

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications)

Journal Announcement: 9505W3

Abstract: Achieving network security requires more than simply selecting a system that utilizes good encryption algorithm. Several algorithm (data encrypted left bracket DES right bracket , RSA, Skipjack, Kerberos, and so on) are capable of providing excellent information security. However, the most robust of encryption algorithms is of no value without proper system implementation and user security awareness. Any security system will be attacked at its weakest point. Thus, in order to have effective data communication security, the network security system must be architecturally sound and all users must adhere to the system security policies.

Descriptors: *Telecommunication networks; Security of data; Local area networks; Information services; Computer systems; Modems; Cryptography; Data communication systems; Algorithms; Security systems

Identifiers: Secure communication networks; Security policy; Crypto algorithms; Dynamic session keys ; Key encryption keys; Random authentication variables

Classification Codes:

723.2 (Data Processing); 722.3 (Data Communication, Equipment & Techniques); 903.4 (Information Services); 722.4 (Digital Computers & Systems); 723.1 (Computer Programming)

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software); 722 (Computer Hardware); 903 (Information Science)

71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

Set	Items	Description
S1	508	(LEAP(N) (CISCO) OR EAP(N) CISCO OR LEAP() PROTOCOL)
S2	18	S1 NOT PY>2000
S3	6	RD (unique items)
File 2:INSPEC	1969-2005/Aug W1	
	(c) 2005 Institution of Electrical Engineers	
File 8:Ei Compendex(R)	1970-2005/Aug W1	
	(c) 2005 Elsevier Eng. Info. Inc.	
File 9:Business & Industry(R)	Jul/1994-2005/Aug 17	
	(c) 2005 The Gale Group	
File 13:BAMP	2005/Aug W1	
	(c) 2005 The Gale Group	
File 15:ABI/Inform(R)	1971-2005/Aug 17	
	(c) 2005 ProQuest Info&Learning	
File 16:Gale Group PROMT(R)	1990-2005/Aug 17	
	(c) 2005 The Gale Group	
File 20:Dialog Global Reporter	1997-2005/Aug 18	
	(c) 2005 Dialog	
File 34:SciSearch(R)	Cited Ref Sci 1990-2005/Aug W2	
	(c) 2005 Inst for Sci Info	
File 47:Gale Group Magazine DB(TM)	1959-2005/Aug 18	
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File 88:Gale Group Business A.R.T.S.	1976-2005/Aug 17	
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File 95:TEME-Technology & Management	1989-2005/Jul W2	
	(c) 2005 FIZ TECHNIK	
File 111:TGG Natl.Newspaper Index(SM)	1979-2005/Aug 17	
	(c) 2005 The Gale Group	
File 144:Pascal	1973-2005/Aug W1	
	(c) 2005 INIST/CNRS	
File 148:Gale Group Trade & Industry DB	1976-2005/Aug 18	
	(c) 2005 The Gale Group	
File 194:FBODaily	1982/Dec-2005/May	
	(c) format only 2005 Dialog	
File 211:Gale Group Newsearch(TM)	2005/Aug 18	
	(c) 2005 The Gale Group	
File 256:TecInfoSource	82-2005/Jul	
	(c) 2005 Info.Sources Inc	
File 262:CBCA Fulltext	1982-2005/Aug 15	
	(c) 2005 Micromedia Ltd.	
File 275:Gale Group Computer DB(TM)	1983-2005/Aug 18	
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File 349:PCT FULLTEXT	1979-2005/UB=20050811,UT=20050804	
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File 440:Current Contents Search(R)	1990-2005/Aug 18	
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File 619:Asia Intelligence Wire	1995-2005/Aug 15	
	(c) 2005 Fin. Times Ltd	
File 621:Gale Group New Prod.Annou.(R)	1985-2005/Aug 18	
	(c) 2005 The Gale Group	
File 635:Business Dateline(R)	1985-2005/Aug 17	
	(c) 2005 ProQuest Info&Learning	
File 636:Gale Group Newsletter DB(TM)	1987-2005/Aug 17	
	(c) 2005 The Gale Group	
File 647:CMP Computer Fulltext	1988-2005/Jul W5	
	(c) 2005 CMP Media, LLC	
File 649:Gale Group Newswire ASAP(TM)	2005/Aug 08	

(c) 2005 The Gale Group
File 654:US Pat.Full. 1976-2005/Aug 16
(c) Format only 2005 Dialog
File 674:Computer News Fulltext 1989-2005/Aug W1
(c) 2005 IDG Communications
File 707:The Seattle Times 1989-2005/Aug 16
(c) 2005 Seattle Times
File 759:Business Insights 1992-2005/Aug
(c) 2005 Datamonitor
File 767:Frost & Sullivan Market Eng 2005/Aug
(c) 2005 Frost & Sullivan Inc.
File 990:NewsRoom Current May 1 -2005/Aug 18
(c) 2005 Dialog
File 991:NewsRoom 2005 Jan 1-2005/Mar 30
(c) 2005 Dialog
File 992:NewsRoom 2004 Jan 1-2004/Dec 31
(c) 2005 Dialog
File 993:NewsRoom 2003
(c) 2005 Dialog
File 994:NewsRoom 2002
(c) 2005 Dialog
File 995:NewsRoom 2001
(c) 2005 Dialog

3/5,K/5 (Item 1 from file: 256)
DIALOG(R)File 256:TecInfoSource
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00145955 DOCUMENT TYPE: Review

PRODUCT NAMES: SOA (Service Oriented Architectures) (805921); EAP (Extensible Authentication Protocol) (805939); PEAP (Protected EAP) (805955)

TITLE: Security alphabet soup: What WLAN security method is best for you?

AUTHOR: Snow, Stephen

SOURCE: Frontline Solutions, v4 n2 p34(2) Feb 2003

ISSN: 0890-9768

HOMEPAGE: <http://www.frontline.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Vendors are adding EAP (Extensible Authentication Protocol) types include EAP-MD-5 Challenge, EAP-Transport Layer Security (TLS), and EAP-Tunneled Transport Layer Security (EA-TTLS) authentication types to possibly provide a better method for securing a wireless LAN (WLAN) connection to their solutions. LEAP (Lightweight EAP), which is also known as **EAP - Cisco Wireless**, and PEAP (Protected EAP) are also available; Microsoft, Cisco, and RSA Security developed PEAP to secure transport of authentication data, including legacy password-based ports over 802.11 networks. LEAP is an EAP authentication type used mostly in Aironet WLANS from Cisco and can work with existing legacy operating systems and clients. LEAP has been licensed to other manufacturers. and LEAP's availability should widen soon. Wi-Fi Protected Access (WPA) is an interim security solution based on IEEE standards that is designed to work with products on the market currently. WPA will be included in Wi-Fi Certified products beginning in 2003. EAP-MD-5 Challenge is the oldest EAP authentication type. It serves as a base level of support for 802.1x devices, but is not recommended for WLANS. EAP-TLS supports certificate-based and mutual authentication of the client and the network. EAP-TTLS was developed as an extension of EAP-TLS and supports certificate-based, mutual authentication of the client and network through an encrypted channel and a way to derive dynamic, per-user, per-session WEP keys.

COMPANY NAME: Vendor Independent (999999)

DESCRIPTORS: Communications Protocols; Computer Security; LANs; Network Administration; Network Software; System Monitoring; Wireless Networks

REVISION DATE: 20031030

...wireless LAN (WLAN) connection to their solutions. LEAP (Lightweight EAP), which is also known as **EAP - Cisco Wireless**, and PEAP (Protected EAP) are also available; Microsoft, Cisco, and RSA Security developed PEAP

...

Set	Items	Description
S1	361053	WIRELESS OR WIFI OR WI()FI OR CELLULAR OR MOBILE OR BLUETOOTH OR WAP
S2	7	DYNAMIC()SESSION()KEY? ?
S3	4	INDEPENDENTLY()GENERATED()KEY? ?
S4	6	LEAP()PROTOCOL OR EAP(2N)CISCO
S5	48	S1 (12N) (LEAP OR WEP()ENHANCEMENT?)
S6	0	S1 (12N) (INDEPENDENT?) () (CREAT? OR GENERAT? OR SPAWN? OR MAKE OR BUILD? OR ASSEMBL? OR AUTHOR OR AUTHORIZING) () (KEY OR KEYS)
S7	11	S1 (12N) (DYNAMIC? OR ADAPT? OR CHANG? OR MODIF? OR ALTER?-) () SESSION?
S8	72	S2 OR S3 OR S4 OR S5 OR S7
S9	54	S8 AND IC=(G06F OR H04L OR H04M OR H04N)
S10	9	S9 NOT AD=20000912:20030912
S11	3	S10 NOT AD=20030912:20050912

File 348:EUROPEAN PATENTS 1978-2005/Aug W01
(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2005/UB=20050811,UT=20050804
(c) 2005 WIPO/Univentio

11/3,K/2 (Item 1 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00518261 **Image available**
CRYPTOGRAPHIC KEY-RECOVERY MECHANISM
MECANISME D'EXTRACTION DE CLE CRYPTOGRAPHIQUE

Patent Applicant/Assignee:

FORTRESS TECHNOLOGIES INC,
FRIEDMAN Aharon,
BOZOKI Eva,

Inventor(s):

FRIEDMAN Aharon,
BOZOKI Eva,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9949613 A1 19990930

Application: WO 99US3665 19990219 (PCT/WO US9903665)

Priority Application: US 9875330 19980220

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

Publication Language: English

Fulltext Word Count: 4615

Main International Patent Class: H04L-009/08

Fulltext Availability:

Detailed Description

English Abstract

...recording of any session (70). From Sidyn(t) and Pjdyn(t) one can calculate the **dynamic session key** between the two nodes (Ki,jdyn(t)) (75). However, all other parties are still protected...

Detailed Description

... a key recovery authority (KRA) and every pair of nodes share a permanent and a **dynamic session key** with each other. When two nodes initiate communication, the nodes exchange dynamic public keys (encrypted ...a recording of any session. From Sid"(0 and Pjd"(t) one can calculate the **dynamic session key** between the two nodes (K,,d1'(t)). However, all other parties are still protected since...of any session.

From

13

S:4n(t) and P.''(t) one can calculate the **dynamic session key** between the two nodes However, all other parties are still protected since their dynamic public...

Set	Items	Description
S1	385331	WIRELESS OR WIFI OR WI()FI OR CELLULAR OR MOBILE OR BLUETO- OTH OR WAP
S2	1	DYNAMIC()SESSION()KEY? ?
S3	0	INDEPENDENTLY()GENERATED()KEY? ?
S4	0	LEAP()PROTOCOL OR EAP()CISCO
S5	11	S1 AND (LEAP OR WEP()ENHANCEMENT?)
S6	0	S1 AND (INDEPENDENT?)() (CREAT? OR GENERAT? OR SPAWN? OR MA- KE OR BUILD? OR ASSEMBL? OR AUTHOR OR AUTHORIZING) () (KEY OR KEY- S)
S7	10	S1 AND (DYNAMIC? OR ADAPT? OR CHANG? OR MODIF? OR ALTER?) (-)SESSION?
S8	22	S2 OR S5 OR S7
S9	22	IDPAT (sorted in duplicate/non-duplicate order)
S10	22	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2005/Apr (Updated 050801)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200552
(c) 2005 Thomson Derwent

10/5/7 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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016044312 **Image available**

WPI Acc No: 2004-202163/200419

XRPX Acc No: N04-160700

Password authentication method for wireless device, involves authenticating client using message digest 4 hashed password, where authentication request data has non-message digest 4 hashed password

Patent Assignee: CISCO TECHNOLOGY INC (CISC-N); HALASZ D E (HALA-I); ZORN G W (ZORN-I)

Inventor: HALASZ D; ZORN G; HALASZ D E; ZORN G W

Number of Countries: 104 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040019786	A1	20040129	US 200117544	A	20011214	200419 B
			US 2002270843	A	20021014	
WO 200436864	A2	20040429	WO 2003US32551	A	20031014	200429
AU 2003284144	A1	20040504	AU 2003284144	A	20031014	200467
EP 1552664	A2	20050713	EP 2003776375	A	20031014	200546
			WO 2003US32551	A	20031014	

Priority Applications (No Type Date): US 2002270843 A 20021014; US 200117544 A 20011214

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20040019786 A1 35 H04L-009/00 CIP of application US 200117544
WO 200436864 A2 E H04L-029/00
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW
AU 2003284144 A1 H04L-029/00 Based on patent WO 200436864
EP 1552664 A2 E H04L-029/06 Based on patent WO 200436864
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20040019786 A1

NOVELTY - An alternatively-hashed user unicode password associated with a client user name, is retrieved. A message digest 4 (MD4) hash of the user password is performed, to create an MD4 hashed password. The client is authenticated through lightweight extensible authentication protocol (LEAP) using MD4 hashed password, where authentication request data has non-MD4 hashed password.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) password authentication program;
- (2) recorded medium storing password authentication program;
- (3) non-MD4 encoding client authentication method;
- (4) authentication server;
- (5) network; and
- (6) 802.11 compatible client.

USE - For password authentication in lightweight extensible authentication protocol (LEAP) for operating wireless device.

ADVANTAGE - Provides an alternative database on the network, such that the authentication server can access the alternative database during the lightweight extensible authentication process.

DESCRIPTION OF DRAWING(S) - The figures show the flow diagram of the LEAP encryption process.

pp; 35 DwgNo 4a, 4b/11

Title Terms: PASSWORD; AUTHENTICITY; METHOD; WIRELESS ; DEVICE;
AUTHENTICITY; CLIENT; MESSAGE; DIGEST; HASH; PASSWORD; AUTHENTICITY;
REQUEST; DATA; NON; MESSAGE; DIGEST; HASH; PASSWORD

Derwent Class: T01; W01

International Patent Class (Main): H04L-009/00; H04L-029/00; H04L-029/06

International Patent Class (Additional): H04L-012/22

File Segment: EPI

10/5/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014756344 **Image available**
WPI Acc No: 2002-577048/200262
XRPX Acc No: N02-457549

Transaction authentication method between terminal and smartcard for bus system, involves transmitting random session key between terminal and smartcard for authenticating valid smartcard and valid terminal
Patent Assignee: MOTOROLA INC (MOTI)
Inventor: LIN B; NEROT S C
Number of Countries: 026 Number of Patents: 001
Patent Family:
Patent No Kind Date Applcat No Kind Date Week
EP 1223565 A1 20020717 EP 2001400091 A 20010112 200262 B

Priority Applications (No Type Date): EP 2001400091 A 20010112

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
EP 1223565 A1 E 31 G07F-007/10

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): EP 1223565 A1

NOVELTY - A random session key is transmitted between a terminal (102) and a smartcard (104). A card key (Kd) equal to the card key of the smartcard is generated at the terminal based on the key to authenticate a valid smartcard. A terminal identifier which is equal to terminal identifier of the transaction terminal is generated at the smartcard based on the key to authenticate a valid terminal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Smartcard;
- (2) Terminal;
- (3) Smartcard command set;
- (4) Session key generation method;
- (5) Dynamic session key ;
- (6) Set of instructions used in transaction process;
- (7) Commit command;
- (8) Roll-back mechanism; and
- (9) Integrated circuit.

USE - For mutually authenticating transaction in public transport system such as train or bus system, in fare or debit-based application such as parking and taxis.

ADVANTAGE - Provides high level of security and ensures data integrity with fast commit processing and fast transaction time by transmitting random session key between the terminal and smartcard.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating the terminal-smartcard mutual authentication method.

Terminal (102)
Smartcard (104)
pp; 31 DwgNo 1/4

Title Terms: TRANSACTION; AUTHENTICITY; METHOD; TERMINAL; BUS; SYSTEM; TRANSMIT; RANDOM; SESSION; KEY; TERMINAL; AUTHENTICITY; VALID; VALID; TERMINAL

Derwent Class: T05

International Patent Class (Main): G07F-007/10

File Segment: EPI